

**Amendment and Response**

Applicant: David C. Lowery et al.

Serial No.: 10/677,120

Filed: October 1, 2003

Docket No.: 10354US01

Title: MAGNETIC RECORDING TAPE MEDIA HAVING LOW ABRASIVITY AND RELIABLE MEDIA PERFORMANCE

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**IN THE CLAIMS**

With this Response, claims 11-15 have been cancelled, and claims 16-22 have been added as follows:

1. (Original) A magnetic recording medium comprising:
  - a non-magnetic substrate defining a front side and a back side; and
  - a magnetic coating formed over the front side and characterized by Abrasivity Index of not greater than 350 microinches.
2. (Original) The magnetic recording medium of claim 1, wherein the Abrasivity Index is in the range of 150 – 350 microinches.
3. (Original) The magnetic recording medium of claim 1, wherein the Abrasivity Index is not greater than 300 microinches.
4. (Original) The magnetic recording medium of claim 1, wherein the magnetic coating includes a lower layer formed on the front side of the substrate and the upper layer formed over the lower layer.
5. (Original) The magnetic recording medium of claim 4, wherein the upper layer includes a magnetic metal particle dispersed in a binder and otherwise provides the Abrasivity Index.
6. (Original) The magnetic recording medium of claim 5, wherein the magnetic metal particle is composed of at least 80% elemental iron having a coercivity in the range of 1600 – 2500 Oe as measured by VSM at 13 kOe.

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7. (Original) The magnetic recording medium of claim 5, wherein the upper layer includes head cleaning agent in the range of 5.75 – 10.35 parts by weight based upon 100 part by weight of the magnetic metal particle.

8. (Original) The magnetic recording medium of claim 1, wherein the magnetic recording medium is a DLT tape.

9. (Original) The magnetic recording medium of claim 1, wherein the magnetic recording medium is configured to conform with an ECMA standard selected from the group consisting of DLT4, DLT5, and DLT6.

10. (Original) The magnetic recording medium of claim 1, wherein the magnetic coating has a coercivity of at least 1900 Oe.

11. – 15. (Cancelled)

16. (New) The magnetic recording medium of claim 4, wherein the lower layer includes a head cleaning agent.

17. (New) The magnetic recording medium of claim 4, wherein the lower layer includes carbon black having an average particle size of less than 20 nm.

18. (New) The magnetic recording medium of claim 17, wherein the lower layer includes carbon black in the range of 1 to 5 parts by weight based upon 100 parts by weight of a primary pigment included in the lower layer.

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19. (New) The magnetic recording medium of claim 1, further comprising a non-magnetic back coating formed over the back side of the non-magnetic substrate, the back coating including a head cleaning agent.

20. (New) The magnetic recording medium of claim 19, wherein the back coating includes a primary, small carbon black with an average particle size between 10 nm and 25 nm and a secondary, large carbon black with an average particle size between 50 nm and 300 nm.

21. (New) The magnetic recording medium of claim 1, wherein the magnetic coating is a burnished magnetic coating.

22. (New) The magnetic recording medium of claim 21, wherein the burnished magnetic coating is at least one of a scraped magnetic coating, a vamed magnetic coating, and a lapped magnetic coating.